

**Electronic Filing System (EFS) Data  
Electronic Patent Application Submission  
USPTO Use Only**

EFS ID: **19998**  
Application ID: **10065778**  
Title of Invention: **PLC BASED WIRELESS  
COMMUNICATIONS**  
First Named Inventor: **Bryan Metts**  
Domestic/Foreign Application: **Domestic Application**  
Filing Date: **null**  
Effective Receipt Date: **2002-11-18**   
Submission Type: **Utility Patent Filing**  
Filing Type: **new-utility**  
Confirmation Number: **0**  
Attorney Docket Number: **30GF-9121**  
Digital Certificate Holder: **cn=Thomas Micheal Fisher, ou=Registered Attorneys, ou=Patent  
and Trademark Office, ou=Department of Commerce, o=U.S.  
Government, c=US**  
Certificate Message Digest: **vdmwsfvPC/oWsxDtEH90Vw==**  
  
Total Fees Authorized: **\$864.0**  
  
Payment Category: **DA - Deposit Account**  
Deposit Account Number: **12384**  
Deposit Account Name: **Thomas M. Fisher**



# TRANSMITTAL FORM

Electronic Version 1.0.3

Stylesheet Version: 1.0

Attorney Docket  
Number:

30GF-  
9121

Submission Type: Utility Patent  
Filing

## PLC BASED WIRELESS COMMUNICATIONS

First Named Inventor: Bryan Metts

**SUBMITTED BY**

Name: Thomas M. Fisher

Registration Number: 47564

Electronic Signature Mark: Thomas  
Fisher Date Signed: 20021118

*I certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.*

*I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.*

**Attached Files:**

declaration	Dec1.tif
declaration	Dec2.tif
declaration	Dec3.tif
declaration	Dec4.tif

<b>bibd-transmittal</b>	<b>14983-75apds.xml</b>
<b>fee-transmittal</b>	<b>14983-75fee.xml</b>
<b>patent-assignments</b>	<b>14983-75asgn.xml</b>
<b>specification</b>	<b>testexport1.xml</b>

**Attached Image File(s):**

Dec1.tif  
Dec2.tif  
Dec3.tif  
Dec4.tif

**Comments:**

**Docket No. 30GF-9121****COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plus names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **PLC BASED WIRELESS COMMUNICATIONS** (Docket No. 30GF-9121), the specification of which:

(check one)  is attached hereto  
 was filed on \_\_\_\_\_ as Application Serial No. \_\_\_\_\_  
 and was amended on \_\_\_\_\_

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations §1.56(a).

I hereby claim priority benefits under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112. I acknowledge the duty to disclose material information defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)	(Status: patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status: patented, pending, abandoned)

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below:

Application Serial No.	Filing Date	Additional provisional application numbers are listed on a supplemental priority sheet attached hereto.
_____	_____	_____

I hereby appoint Ronald E. Myrick, Reg. No. 26,315; Henry J. Policinski, Reg. No. 26,621; and James W. Mitchell, Reg. No. 25,602, all of GENERAL ELECTRIC COMPANY, 3135 Easton Turnpike, Fairfield, CT 06431; Karl A. Vic, Reg. No. 33,288, of GENERAL ELECTRIC COMPANY, 41 Woodford Avenue, Plainville, CT 06062; and John Beulick, Reg. No. 33,338; Patrick W. Rasche, Reg. No. 37,916; Robert B. Reeser III, Reg. No. 45,548; Thomas J. Fisher, Reg. No. 47,564; Bruce T. Atkins, Reg. No. 43,476; Michael Tersillo, Reg. No. 42,180; Daniel M. Fitzgerald, Reg. No. 38,880; William J. Zychlewicz, Reg. No. 51,366; Michael G. Harms, Reg. No. 51,780; and Phillip A. Shiple, Reg. No. 51,357, all of ARMSTRONG TEASDALE, LLP, One Metropolitan Square, Suite 2600, St. Louis, MO 63101 jointly, and each of them severally, my attorneys and attorney, with full power of substitution, delegation and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent and to transact all business in the Patent and Trademark Office connected therewith.

I hereby direct that all correspondence and telephone calls in connection with this application be addressed to the said

John S. Beulick, Reg. No. 33,338  
 Armstrong Teasdale LLP  
 One Metropolitan Square, Suite 2600  
 St. Louis, MO 63102.  
 Telephone No. (314) 621-5070.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information a belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and t like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and t such willful false statements may jeopardize the validity of the application and any patent issued thereon.

**SOLE OR FIRST INVENTOR:**

Full Name: Bryan Metts

Signature: 

Date: 11/15/02

Residence: Ruckersville, VA

Citizenship: USA

Post Office Address: 43 Oak Terrace Dr., Ruckersville, VA 22968

**SECOND JOINT INVENTOR, IF ANY:**

Full Name: Kojakully Shetty

Signature: 

Date: 11/11/02

Residence: Charlottesville, VA

Citizenship: India

Post Office Address: 496 Saxon Ct., Charlottesville, VA 22901

**THIRD JOINT INVENTOR, IF ANY:**

Full Name: Yuvbir Singh

Signature: 

Date: 11/11/02

Residence: Charlottesville, VA

Citizenship: India

Post Office Address: 1218 Chatham Ridge, Charlottesville, VA 22901

**FOURTH JOINT INVENTOR, IF ANY:**

Full Name: Peter G. Thomas

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Residence: Charlottesville, VA

Citizenship: USA

Post Office Address: 950 Charter Oaks Drive, Charlottesville, VA 22901

Docket No. 30GF-9121

## COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **PLC BASED WIRELESS COMMUNICATIONS** (Docket No. 30GF-9121), the specification of which:

(check one)  is attached hereto  
 was filed on \_\_\_\_\_ as Application Serial No. \_\_\_\_\_  
 and was amended on \_\_\_\_\_

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations §1.56(a).

I hereby claim priority benefits under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112. I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)	(Filing Date)	(Status: patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status: patented, pending, abandoned)

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below.

Application Serial No.	Filing Date	Additional provisional application numbers are listed on a supplemental priority sheet attached hereto.
_____	_____	_____

I hereby appoint Ronald E. Myrick, Reg. No. 26,315; Henry J. Policinski, Reg. No. 26,621; and James W. Mitchell, Reg. No. 25,602, all of GENERAL ELECTRIC COMPANY, 3135 Easton Turnpike, Fairfield, CT 06431; Karl A. Vick, Reg. No. 33,288, of GENERAL ELECTRIC COMPANY, 41 Woodford Avenue, Plainville, CT 06062; and John S. Beulick, Reg. No. 33,338; Patrick W. Rasche, Reg. No. 37,916; Robert B. Reeser III, Reg. No. 45,548; Thomas M. Fisher, Reg. No. 47,564; Bruce T. Atkins, Reg. No. 43,476; Michael Tersillo, Reg. No. 42,180; Daniel M. Fitzgerald, Reg. No. 38,880; William J. Zychlewicz, Reg. No. 51,366; Michael G. Harms, Reg. No. 51,780; and Phillip A. Shipley, Reg. No. 51,357, all of ARMSTRONG TEASDALE, LLP, One Metropolitan Square, Suite 2600, St. Louis, MO 63102, jointly, and each of them severally, my attorneys and attorney, with full power of substitution, delegation and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent and to transact all business in the Patent and Trademark Office connected therewith.

I hereby direct that all correspondence and telephone calls in connection with this application be addressed to the said

John S. Beulick, Reg. No. 33,338  
 Armstrong Teasdale LLP  
 One Metropolitan Square, Suite 2600  
 St. Louis, MO 63102.  
 Telephone No. (314) 621-5070.

**Docket No. 30GF-9121**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application and any patent issued thereon.

**SOLE OR FIRST INVENTOR:**Full Name: Bryan Metts

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Ruckersville, VACitizenship: USAPost Office Address: 43 Oak Terrace Dr., Ruckersville, VA 22968**SECOND JOINT INVENTOR, IF ANY:**Full Name: Kojakully Shetty

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Charlottesville, VACitizenship: IndiaPost Office Address: 196 Saxon Ct., Charlottesville, VA 22901**THIRD JOINT INVENTOR, IF ANY:**Full Name: Yuvbir Singh

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence: Charlottesville, VACitizenship: IndiaPost Office Address: 1218 Chatham Ridge, Charlottesville, VA 22901**FOURTH JOINT INVENTOR, IF ANY:**Full Name: Peter G. ThomasSignature:  Date: 11/7/2002Residence: Huntsville, ALCitizenship: USAPost Office Address: 3106 Greystone Drive, Huntsville, AL 35763

# FEE TRANSMITTAL

Electronic Version 1.1.0

Stylesheet Version: 1.0

*Patent fees are subject to annual revisions on or about October 1st of each year.*

Large Entity

**TOTAL FEES AUTHORIZED: \$ 864**

**The commissioner is hereby authorized to charge indicated processing and/or publication fees and credit any overpayments to:**

Deposit Account Number: 01-2384



Deposit Account Name: ARMSTRONG TEASDALE LLP

Charge Any Additional Fee Required Under 37 C.F.R. Sections 1.16 and 1.17.

Charge Assignment Fees Required Under 37 C.F.R. Section 1.21 (h).

**SUBMITTED BY**

Authorized Name: Thomas M. Fisher

Electronic Signature Mark: Thomas M. Fisher

Date Signed: 20021118

**BASIC FILING FEE**

Fee Description	Fee Code	Fee Paid
Utility Filing Fee	1001	\$ 740

Subtotal For Basic Filing Fee: \$ 740

**EXTRA CLAIM FEES**

	Fee Code	Fee	Extra Claims	Fee Paid
Total Claims: 20	1202	\$ 18	0	\$ 0
Independent Claims: 4	1201	\$ 84	1	\$ 84

**Subtotal For Extra Claims Fees: \$ 84**

**ADDITIONAL FEES**

Fee Description	Number	Quantity	Fee Code	Amount	Fee Paid
Recording Each Patent Assignment Per Property Fee	00000000	1	8021	\$ 40	\$ 40

**Subtotal For Additional Fees: \$ 40**